

2. A method for determining the meth

3 deciding which confirmation message to transmit based on an information
4 status flag indication contained in the received information and a decoding operation
5 performed on the received information thus providing a technique for recovering from
6 misinterpretation of a previous confirmation message transmission.

3. The method of claim 1 further comprising waiting for NEW information after a positive confirmation message was transmitted.

1 5. The method of claim 1 where the step of deciding which confirmation message to
2 transmit further comprises transmitting a positive confirmation message if the received
3 information is NEW information and the decoding operation was successful.

1 7. The method of claim 6 further comprising the steps of:

2 waiting for CONTINUE information after the negative confirmation
3 message was transmitted;
4 combining received CONTINUE information with previously received
5 and decoded information; and
6 performing a decoding operation on the combined information

1 8. A method for ARQ using Incremental Redundancy, the method comprises:
2 transmitting a positive confirmation message after having received
3 CONTINUE information while waiting for NEW information, or after having
4 successfully decoded received NEW information while waiting for either NEW or
5 CONTINUE information, or after having successfully decoded combined CONTINUE
6 information after having waited for CONTINUE information.

1 9. The method of claim 8 further comprising the step of transmitting a negative
2 confirmation message after any of the received information was unsuccessfully decoded.

1 10. The method of claim 8 where the received information is formatted as one or more
2 sub-packets where each sub-packet contains a one-bit information status flag defining the
3 packet as either NEW or CONTINUE.

1 11. The method of claim 10 where the information status flag is stored in each packet's
2 header.

1 12. The method of claim 8 where the received NEW or CONTINUE information
2 comprises a plurality of packets where each packet has a header, a payload and a trailer
3 and where a one-bit NEW/CONTINUE flag is stored in the header.